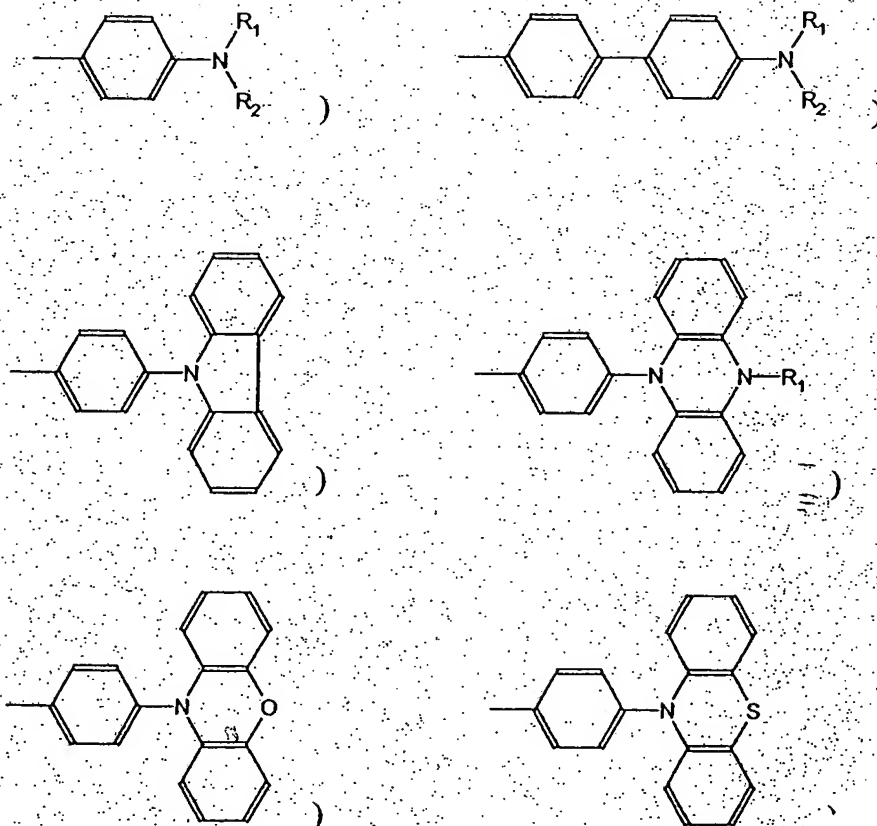
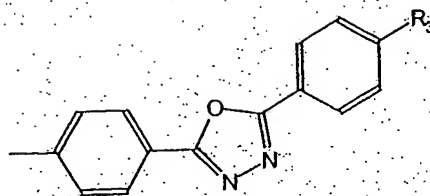


IN THE CLAIMS

1. (Currently Amended) A polyfluorene end-capped with at least one charge-transporting moiety, wherein said charge transporting moiety is a chemical moiety adapted to facilitate the transport of electrons, holes or ions.
2. (Currently Amended) The polyfluorene according to claim 1, wherein the charge-transporting moiety is selected from the group consisting of electron-transporting moieties, hole-transporting moieties and ion-transporting moieties.
3. (Currently Amended) The polyfluorene according claim 1, wherein the charge-transporting moiety is selected from the group consisting of:



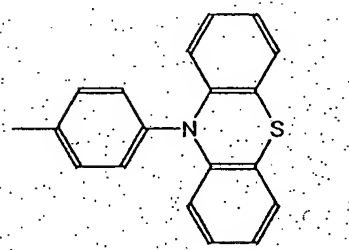
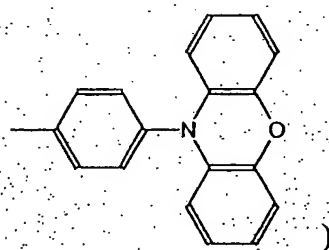
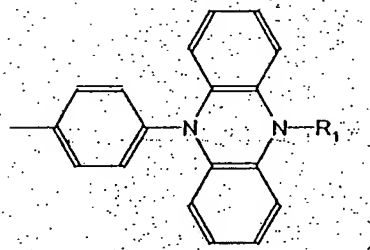
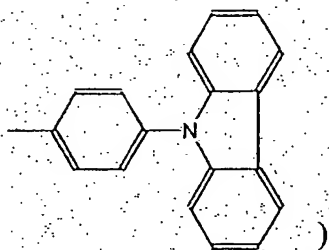
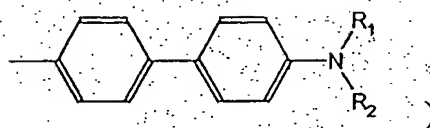
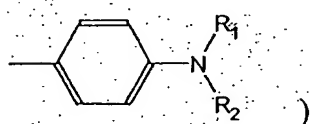


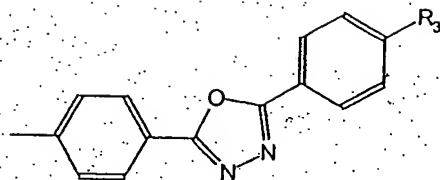
wherein R_1 and R_2 are independently at each occurrence selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylaminoaryl, and

wherein R_3 is independently at each occurrence selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

4. (Currently Amended) The polyfluorene according to claim 3, wherein R_1 and R_2 are independently at each occurrence selected from the group consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, ~~2-naphthyl~~ 2-naphthyl, 4-methoxyphenyl, 2-methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

5. (Currently Amended) A polyfluorene end-capped with at least one moiety selected from the group consisting of:



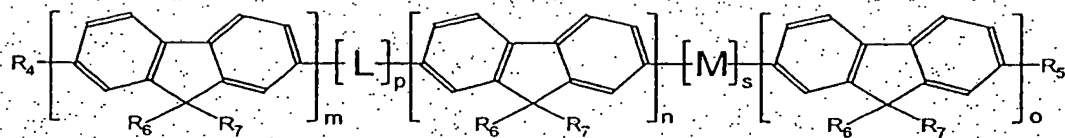


wherein R_1 and R_2 are independently at each occurrence selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted ~~diarylaminoaryl~~ diarylaminoaryl, and

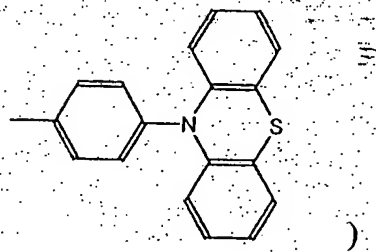
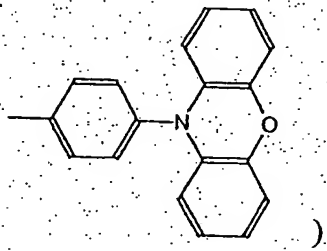
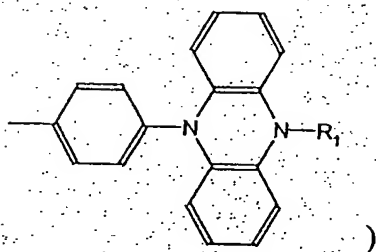
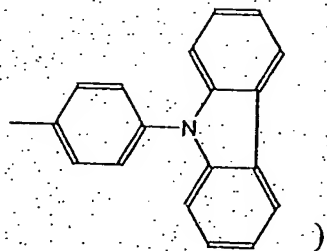
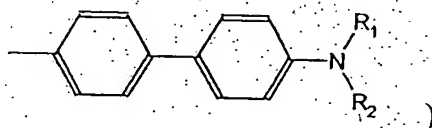
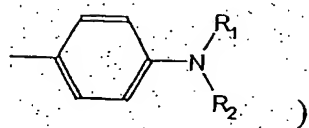
wherein R_3 is independently at each occurrence selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

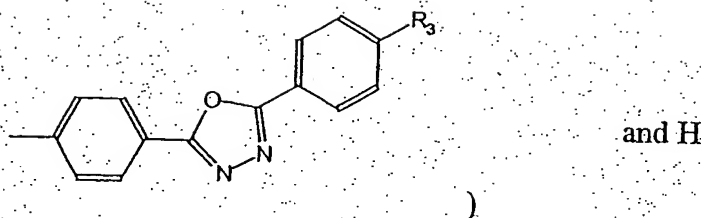
6. (Previously Presented) The polyfluorene according to claim 5, wherein R_1 and R_2 are independently at each occurrence selected from the group consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

7. (Currently Amended) A polyfluorene having the formula



wherein R₄ and R₅ are independently at each occurrence selected from the group consisting of:





R_1 and R_2 being independently selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl, and substituted diarylaminoaryl.

R_3 being selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, and substituted alkylaryl,

and wherein R_6 and R_7 are independently at each occurrence selected from the group consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, $-(CH_2)_q-(O-CH_2-CH_2)_r-O-CH_3$,

q being selected from the range 1 - 10, r being selected from the range 0 - 20,

and wherein L and M are independently at each occurrence selected from the group consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene,

substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer that can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene,

and wherein $m+n+o \geq 10$, each of m, n, o being independently selected from the range 1 – 1,000,

and wherein p is selected from the range 0-15,

and wherein s is selected from the range 0-15,

with the proviso that, if R_4 is H, R_5 is not H, and if R_5 is H, R_4 is not H.

8. (Previously Presented) A polyfluorene according to claim 7,
wherein m, p, s, o are 0, and
wherein $R_4 - R_7$ and $R_1 - R_3$ are as previously defined.
9. (Previously Presented) The polyfluorene according to claim 7 cross-linked to a polyfluorene according to claim 7 via at least one linkage selected from the group consisting of a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and an α,ω -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1 – 20 C-atoms.
10. (Previously Presented) The polyfluorene according to claim 7 which has at least one color-tuning moiety.

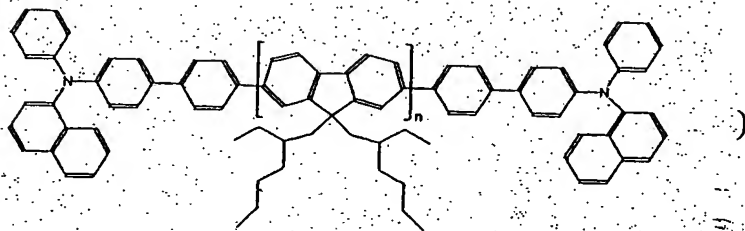
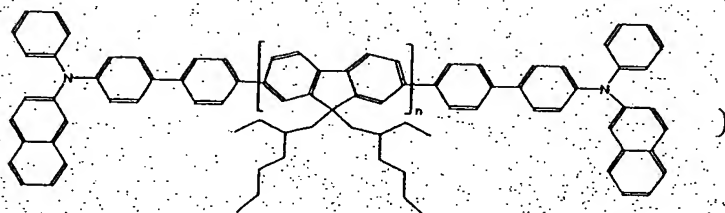
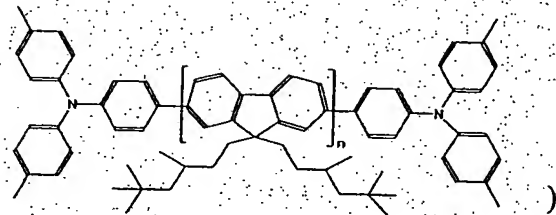
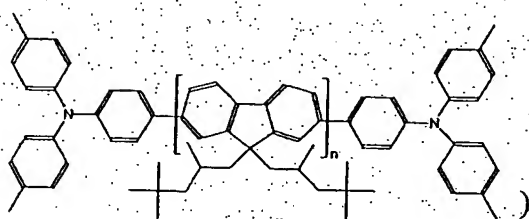
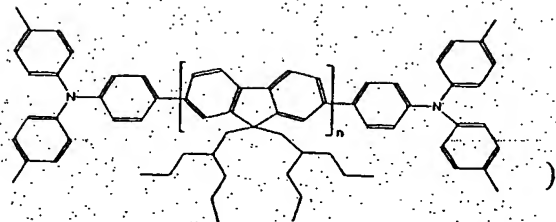
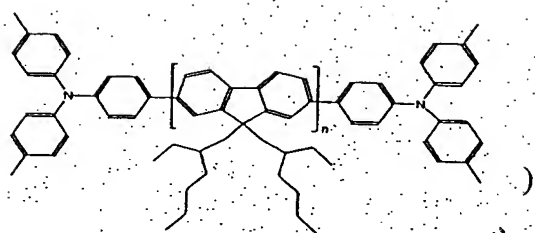
11. (Previously Presented) The polyfluorene according to claim 10, wherein the color-tuning moiety is selected from the group consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer than can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene.

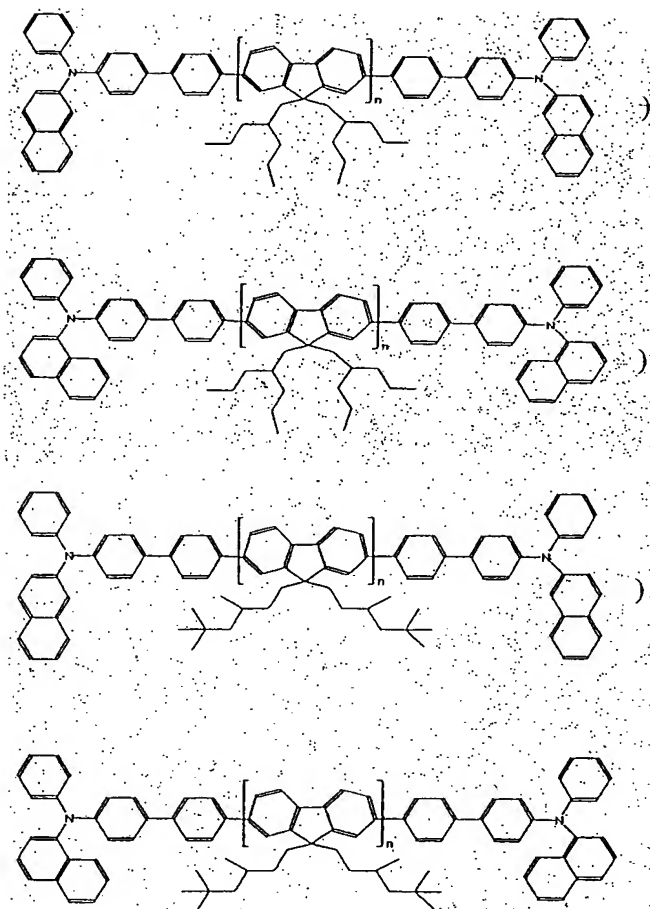
12. (Previously Presented) The polyfluorene according to claim 7, wherein the polyfluorene is liquid-crystalline.

13. (Previously Presented) The polyfluorene according to claim 12, wherein the polyfluorene is liquid-crystalline at or above 70° C.

14. (Previously Presented) The polyfluorene according to claim 7, wherein the polyfluorene is amorphous.

15. (Previously Presented) A polyfluorene selected from the group consisting of:





wherein n is as previously defined.

16. (Currently Amended) A film comprising a polyfluorene according to claim 15.
17. (Previously Presented) The film according to claim 16, wherein the film is aligned.
18. (Cancelled).
19. (Currently Amended) A film according to claim 16, further comprising at least

one other substance selected from the group consisting of ~~fluorescent~~ fluorescent dyes, hole-transporting moieties, electron-transporting moieties, ion-transporting moieties, phosphorescent dyes, nanoparticles, low molecular weight liquid-crystalline moieties, other liquid-crystalline and/or fluorescent and/or phosphorescent and/or charge-transporting polymers.

20. (Previously Presented) The film according to claim 16, wherein the film is deposited on an alignment layer.

21. (Previously Presented) The film according to claim 16, wherein the film has a thickness ranging from 10 nm to 2 μ m.

22. (Currently Amended) The device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to claim 16 1.

23. (Previously Presented) The device according to claim 22, further comprising another polymer.

24. (Previously Presented) The device according to claim 23, wherein said polymer is a luminescent polymer.

25. (Previously Presented) A device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, further comprising a film according to claim 16.

26. (Previously Presented) A film comprising a polyfluorene according to claim 1.

27. (Previously Presented) The film according to claim 26, wherein the film is an emission layer.

28. (Currently Amended) A device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, comprising a polyfluorene according to claim 1 and/or a film according to claim 16.

29. (Cancelled).

30. (Previously Presented) The device according to claim 25, further comprising a liquid-crystal display.